

# PATENT ABSTRACTS OF JAPAN

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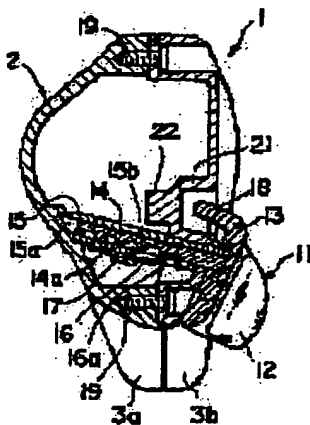
## (54) HEAD MOUNTED VIDEO DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To improve convenience so as not to detach glasses or the like together when detaching a head mounted video display device.

SOLUTION: A head mounted video display device 1 is provided with a main body 2 of a device constituted by overlaying a video display system such as a liquid crystal display element(LCD) or a prism from front and rear sides with front and rear covers 3a and 3b, a nose pad member 11 equipped with a supporting shaft 14 extended a little downward from the central part of the rear side of the rear cover 3b, a pad part 12 attached to the extension end of this supporting shaft 14 and a protruding part 13 protruded forward from the upper end part of this pad part 12 so as to prevent the bridge of glasses or the like from being hooked on the pad part 12, recessed structure part 21 for housing the protruding part 13, and a boss 22 having a screw hole for fitting the said video display system

protruded on this recessed structure part 21.



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## CLAIMS

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[Claim(s)]

[Claim 1] The graphic display member for discovering the image corresponding to the supplied video signal, The graphic display system constituted including the optical element for turning and leading the flux of light with the image discovered by this graphic display member to an observer's eyeball, The sheathing object which holds the above-mentioned graphic display system, and the nose pad member to which it comes to prepare the pad section which extends from the predetermined section of the above-mentioned sheathing object, and contacts the extension one end in respect of predetermined at the above-mentioned observer's nose, \*\*\*\*\* -- the head wearing mold graphic display device which is a head wearing mold graphic display device, and is characterized by preparing ahead the lobe which comes to carry out a predetermined dimension protrusion rather than the field where the pad section of the above-mentioned nose pad member contacts a self upper limit side at the above-mentioned observer's nose.

[Claim 2] The above-mentioned sheathing object is a head wearing mold graphic display

device according to claim 1 characterized by coming to have the concave structured division whose receipt of a part of above-mentioned lobe is enabled at least.

[Claim 3] The above-mentioned concave structured division is a head wearing mold graphic display device according to claim 2 characterized by coming to have a bond part for attaching the above-mentioned graphic display system.

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## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to a head wearing mold graphic display device and the head wearing mold graphic display device equipped with the nose pad member in contact with an observer's nose in more detail.

[0002]

[Description of the Prior Art] Unlike other pocket mold graphic display devices, an observer's head wearing mold graphic display device with which it is equipped as covers a face flatly becomes [ \*\*\*\* / . ] a thing with an advantage, such as becoming possible that an image is observable by hand free, and to observe the image which has presence and force since the same observation visual field as the case where a big screen is observed is acquired.

[0003] Although various things are proposed from before or such a head wearing mold graphic display device is produced commercially For example, the body of equipment which contains the optical system which leads the image displayed by graphic display members and these graphic display members, such as a liquid crystal display component which displays an image, to an observer side, The head support frame which holds the above-mentioned body of equipment to an observer's view by extending from the both sides of this body of equipment, and being hung on the upper part side of a lug from an observer's temporal region, It has the nose pad member which is projected from the rear-face side of the above-mentioned body of equipment, contacts an observer's bridge, and holds this body of equipment with the above-mentioned head support frame, and is constituted.

[0004] An example of the configuration of the above-mentioned nose pad member proposed conventionally is explained here with reference to drawing 7 (B).

[0005] This nose pad member 91 attaches the pad section 92 which contacts extension one end of the support shaft 94 which extends elastically with elasticity at an observer's bridge, without sliding, and consists of bodies of equipment.

[0006]

[Problem(s) to be Solved by the Invention] Although a head wearing mold graphic display device which was mentioned above is used also after he an observer not only uses it in the state of the naked eye, but has hung glasses etc. In the head wearing mold graphic display device equipped with the conventional nose pad member 91 which was mentioned above If it is going to remove where glasses 31 are hung, the bridge 32 of glasses 31 may be caught in the edge 93 of the pad section 92, and glasses 31 may separate together with removal actuation of this head wearing mold graphic display device.

[0007] In case this invention is made in view of the above-mentioned situation and the head wearing mold graphic display device concerned is removed, it aims at offering a head wearing mold graphic display device with the sufficient user-friendliness from which glasses etc. do not separate together.

[0008]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, the head wearing mold graphic display device by the 1st invention The graphic display system

constituted including the optical element for turning and leading the flux of light with the image discovered by the graphic display member and this graphic display member for discovering the image corresponding to the supplied video signal to an observer's eyeball, It is the head wearing mold graphic display device which comes to have the sheathing object which holds the above-mentioned graphic display system, and the nose pad member in which it comes to prepare the pad section which extends from the predetermined section of the above-mentioned sheathing object, and contacts the extension one end in respect of predetermined at the above-mentioned observer's nose. The lobe which comes to carry out a predetermined dimension protrusion is ahead prepared rather than the field where the pad section of the above-mentioned nose pad member contacts a self upper limit side at the above-mentioned observer's nose.

[0009] Moreover, the head wearing mold graphic display device by the 2nd invention comes to have the concave structured division to which the above-mentioned sheathing object enables the receipt of a part of above-mentioned lobe at least in the head wearing mold graphic display device by the 1st above-mentioned invention.

[0010] Furthermore, the head wearing mold graphic display device by the 3rd invention comes to have a bond part for the above-mentioned concave structured division to attach the above-mentioned graphic display system in the head wearing mold graphic display device by the 2nd above-mentioned invention.

[0011]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained with reference to a drawing. The side elevation in which drawing 7's showing 1 operation gestalt of this invention from drawing 1 , and showing the head wearing mold graphic display device in the condition that an observer's head was equipped with drawing 1 , The top view showing the head wearing mold graphic display device in the condition that an observer's head was equipped with drawing 2 , Drawing of longitudinal section showing the central part of the head wearing mold graphic display device in the condition that drawing 3 contained the nose pad member, Drawing of longitudinal section showing the central part of the head wearing mold graphic display device in the condition that drawing 4 made the nose pad member project, Drawing of longitudinal section of the central part of the head wearing mold graphic display device in which the configuration whose drawing 5 fixes a graphic display system to back covering is shown, the perspective view in which drawing 6 shows the physical relationship of the lobe of a nose pad member and the bridge of glasses, and drawing 7 are (A) book operation gestalt and the side elevation showing the nose pad member of \*\* conventionally [ (B) ], respectively.

[0012] The body 2 of equipment which comes to cover the graphic display system built in by frame-front-cover 3a and back covering 3b as this head wearing mold graphic display device 1 is shown in drawing 1 and drawing 2 , The joint members 4L and 4R each fixed to right and left of this body 2 of equipment, The head support frames 5L and 5R supported pivotably so that it might become these joint members 4L and 4R foldable, The inner phone attaching parts 6L and 6R prepared in the edge of these head support frames 5L and 5R, respectively, The inner phones 7L and 7R which may be each contained by these inner phone attaching parts 6L and 6R if needed, The inner phone cables 8L and 8R which each transmit a sound signal to these inner phones 7L and 7R, On the above-mentioned head support frames 5L and 5R in order to hold these inner phone cables 8L and 8R by the temporal-region side so that neither the above-mentioned inner phones 7L and 7R nor the inner phone cables 8L and 8R may hang down before them Each \*\*\*\*\* cable attaching part 10, It extends possible [ telescopic motion ] from the above-mentioned body 2 of equipment, and it has the nose pad member 11 which supports this body 2 of equipment with the above-mentioned head support frames 5L and 5R in contact with an observer's bridge, and is constituted.

[0013] Moreover, the above-mentioned graphic display system is constituted including the graphic display member slack liquid crystal display component (LCD) for discovering the image corresponding to the supplied video signal, and the optical element slack prism for turning and leading the flux of light with the image discovered by this LCD to an observer's eyeball.

[0014] Next, the configuration of the part which attaches the above-mentioned nose pad member 11 in the body 2 of equipment is explained with reference to drawing 3 and drawing 4.

[0015] The support shaft 14 with which two or more crevice 14a by which the above-mentioned nose pad member 11 was arranged along with the longitudinal direction is formed in the inferior-surface-of-tongue side, It has the pad section 12 which was attached in extension one end of this support shaft 14 and which contacts an observer's bridge with elasticity, without sliding, and is constituted. To the upper limit side of this pad section 12 The lobe 13 which comes to project only a predetermined dimension is ahead formed rather than the field in contact with an observer's nose. A predetermined dimension is a dimension which projects by the degree which is extent which can contact from the bottom the bridge of the glasses which the observer has hung, and the concrete example of use is explained here with reference to drawing 6 etc. later.

[0016] On the other hand, the hole 18 for insertion is drilled in the location which becomes the bottom of the center section of covering 3b after the above of the body 2 of equipment, or \*\*

[0017] And as the housing member 15 for supporting the above-mentioned nose pad member 11 with the above-mentioned support shaft 14 is arranged by this body 2 of equipment, sliding hole 15a in which the above-mentioned support shaft 14 is inserted is prepared in the interior of this housing member 15 and it is open for free passage with the above-mentioned hole 18 for insertion, it is attached in the body 2 of equipment concerned at the include angle which serves as a proper declivity toward back.

[0018] The elastic member 16 which becomes by flat spring is being fixed to the inferior-surface-of-tongue side of the above-mentioned housing member 15 on the screw 17, and stop heights 16a prepared in the tip side of this elastic member 16 engages with crevice 14a of a projection and the above-mentioned support shaft 14 in the above-mentioned sliding hole 15a through opening 15b drilled in the inferior surface of tongue of this housing member 15.

[0019] Thereby, the above-mentioned nose pad member 11 is expanded and contracted free, generating a proper feeling of a click to the body 2 of equipment.

[0020] Moreover, the concave structured division 21 is formed in back covering 3b of the above-mentioned body 2 of equipment near the top of the above-mentioned hole 18 for insertion, and even if there are few above-mentioned lobes 13, a point side enters, and when the above-mentioned nose pad member 11 becomes the location most contained in the body 2 of equipment, it is contained as shown in drawing 3. Thereby, at the time of receipt, as the above-mentioned nose pad member 11 does not project from the external surface of the body 2 of equipment if possible, storability is raised.

[0021] Before the above-mentioned concave structured division 21 serves as the opposite side of nothing and this opening in more detail in the abbreviation rectangular parallelepiped configuration where a rear-face side serves as opening, the bond part slack boss 22 protrudes on the near field towards the front.

[0022] As shown to this boss 22 at drawing 5, tapped hole 22a is drilled and the above-mentioned graphic display system is fixed to this tapped hole 22a through a screw 23.

[0023] Namely, while the circuit board 25 in which the circuit board 26 in which the back light etc. is prepared, a LCD drive circuit, etc. are established is attached To the optical-system attachment component 24 which is a structural member to which the prism which

contains LCD, various kinds of filters, a mask member, etc. in the interior, is made to carry out multiple-times reflection of the image of LCD illuminated with the above-mentioned back light further, and is led to an observer's eyeball is being fixed heights 24a for immobilization in which U slot 24b was formed protrudes -- having -- \*\*\*\* -- this U slot 24b -- minding -- bis-- the above-mentioned graphic display system is fixed to back covering 3b in one by concluding 23 to the above-mentioned boss's 22 tapped hole 22a.

[0024] Furthermore, the above-mentioned optical-system attachment component 24 is positioned by engaging with the pin 27 which protruded from back covering 3b by other end side 24c.

[0025] Thus, by forming the boss 22 who fixes a graphic display system in the concave structured division 21, when concluding a screw 23, the part where a load is added is reinforced.

[0026] Moreover, by screwing a screw 19 by two or more parts, each other is connected and the above-mentioned frame-front-cover 3a and back covering 3b constitute the sheathing object.

[0027] Next, the function of the lobe 13 of the nose pad member 11 which was mentioned above is explained with reference to drawing 6 and drawing 7 (A).

[0028] This head wearing mold graphic display device 1 is usable also after he an observer not only uses it in the state of the naked eye, but has hung the glasses 31 grade.

[0029] And when the observer who hung glasses 31 is going to remove the head wearing mold graphic display device 1 equipped with the nose pad member 11 which was mentioned above, a lobe 13 contacts the bridge 32 of these glasses 31, and it will be in the condition that this bridge 32 is laid on a lobe 13.

[0030] Then, if the head wearing mold graphic display device 1 is tripped from a head, the above-mentioned lobe 13 slides to the bridge 32 of glasses 31, and it will remain in an observer's head as it is, without tripping glasses 31 together.

[0031] In addition, although the lobe 13 was formed in the pad section 12 in \*\*\*\*, it is also possible to take the gestalt which arranges the above-mentioned support shaft 14 in the location which is not limited to this and is equivalent to this lobe 13. In this case, this support shaft 14 will also have the function of the above-mentioned lobe.

[0032] Since the lobe was prepared in the pad section of a nose pad member, in case it is going to remove the head wearing mold graphic display device used where glasses etc. are hung according to such an operation gestalt, these glasses etc. do not separate together and user-friendliness improves.

[0033] Moreover, since the concave structured division which contains the above-mentioned lobe was prepared in back covering, it can consider as the condition of having drawn the nose pad member in the body of equipment as much as possible, at the time of receipt, and it becomes possible to miniaturize and contain.

[0034] Furthermore, it becomes possible to be able to reinforce the part where a load is added, in case a screw etc. is screwed, to be able to prevent that bending, a twist, etc. by the load occur to back covering etc., and to maintain a high assembly precision by preparing the boss who fixes a graphic display system to the concave structured division.

[0035] In addition, as for this invention, it is needless to say for various deformation and application to be possible within limits which are not limited to the operation gestalt mentioned above and do not deviate from the main point of invention.

[0036]

[Effect of the Invention] In case the head wearing mold graphic display device used where glasses etc. are hung is removed according to the head wearing mold graphic display device of this invention by claim 1 since the lobe was prepared in the pad section of a nose pad member as explained above, these glasses etc. do not separate together and user-friendliness

improves.

[0037] Moreover, since according to the head wearing mold graphic display device of this invention by claim 2 the concave structured division whose receipt of a part of lobe is enabled at least was prepared in the sheathing object while doing so the same effectiveness as invention according to claim 1, it becomes possible to attain the miniaturization at the time of receipt.

[0038] Furthermore, according to the head wearing mold graphic display device of this invention by claim 3, while doing so the same effectiveness as invention according to claim 2, by preparing the bond part for attaching a graphic display system in the concave structured division, the reinforcement of the part in which a graphic display system is attached is increased, and generating of bending etc. can be prevented.

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## TECHNICAL FIELD

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[Field of the Invention] This invention relates to a head wearing mold graphic display device and the head wearing mold graphic display device equipped with the nose pad member in contact with an observer's nose in more detail.

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## PRIOR ART

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[Description of the Prior Art] Unlike other pocket mold graphic display devices, an observer's head wearing mold graphic display device with which it is equipped as covers a face flatly becomes [\*\*\*\* / .] a thing with an advantage, such as becoming possible that an image is observable by hand free, and to observe the image which has presence and force since the same observation visual field as the case where a big screen is observed is acquired.

[0003] Although various things are proposed from before or such a head wearing mold graphic display device is produced commercially For example, the body of equipment which contains the optical system which leads the image displayed by graphic display members and these graphic display members, such as a liquid crystal display component which displays an image, to an observer side, The head support frame which holds the above-mentioned body of equipment to an observer's view by extending from the both sides of this body of equipment, and being hung on the upper part side of a lug from an observer's temporal region, It has the nose pad member which is projected from the rear-face side of the above-mentioned body of equipment, contacts an observer's bridge, and holds this body of equipment with the above-mentioned head support frame, and is constituted.

[0004] An example of the configuration of the above-mentioned nose pad member proposed conventionally is explained here with reference to drawing 7 (B).

[0005] This nose pad member 91 attaches the pad section 92 which contacts extension one end of the support shaft 94 which extends elastically with elasticity at an observer's bridge, without sliding, and consists of bodies of equipment.

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## EFFECT OF THE INVENTION

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[Effect of the Invention] In case the head wearing mold graphic display device used where glasses etc. are hung is removed according to the head wearing mold graphic display device of this invention by claim 1 since the lobe was prepared in the pad section of a nose pad

member as explained above, these glasses etc. do not separate together and user-friendliness improves.

[0037] Moreover, since according to the head wearing mold graphic display device of this invention by claim 2 the concave structured division whose receipt of a part of lobe is enabled at least was prepared in the sheathing object while doing so the same effectiveness as invention according to claim 1, it becomes possible to attain the miniaturization at the time of receipt.

[0038] Furthermore, according to the head wearing mold graphic display device of this invention by claim 3, while doing so the same effectiveness as invention according to claim 2, by preparing the bond part for attaching a graphic display system in the concave structured division, the reinforcement of the part in which a graphic display system is attached is increased, and generating of bending etc. can be prevented.

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## TECHNICAL PROBLEM

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[Problem(s) to be Solved by the Invention] Although a head wearing mold graphic display device which was mentioned above is used also after he an observer not only uses it in the state of the naked eye, but has hung glasses etc. In the head wearing mold graphic display device equipped with the conventional nose pad member 91 which was mentioned above If it is going to remove where glasses 31 are hung, the bridge 32 of glasses 31 may be caught in the edge 93 of the pad section 92, and glasses 31 may separate together with removal actuation of this head wearing mold graphic display device.

[0007] In case this invention is made in view of the above-mentioned situation and the head wearing mold graphic display device concerned is removed, it aims at offering a head wearing mold graphic display device with the sufficient user-friendliness from which glasses etc. do not separate together.

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## MEANS

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[Means for Solving the Problem] In order to attain the above-mentioned purpose, the head wearing mold graphic display device by the 1st invention The graphic display system constituted including the optical element for turning and leading the flux of light with the image discovered by the graphic display member and this graphic display member for discovering the image corresponding to the supplied video signal to an observer's eyeball, It is the head wearing mold graphic display device which comes to have the sheathing object which holds the above-mentioned graphic display system, and the nose pad member in which it comes to prepare the pad section which extends from the predetermined section of the above-mentioned sheathing object, and contacts the extension one end in respect of predetermined at the above-mentioned observer's nose. The lobe which comes to carry out a predetermined dimension protrusion is ahead prepared rather than the field where the pad section of the above-mentioned nose pad member contacts a self upper limit side at the above-mentioned observer's nose.

[0009] Moreover, the head wearing mold graphic display device by the 2nd invention comes to have the concave structured division to which the above-mentioned sheathing object enables the receipt of a part of above-mentioned lobe at least in the head wearing mold graphic display device by the 1st above-mentioned invention.

[0010] Furthermore, the head wearing mold graphic display device by the 3rd invention



comes to have a bond part for the above-mentioned concave structured division to attach the above-mentioned graphic display system in the head wearing mold graphic display device by the 2nd above-mentioned invention.

[0011]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained with reference to a drawing. The side elevation in which drawing 7's showing 1 operation gestalt of this invention from drawing 1, and showing the head wearing mold graphic display device in the condition that an observer's head was equipped with drawing 1. The top view showing the head wearing mold graphic display device in the condition that an observer's head was equipped with drawing 2, Drawing of longitudinal section showing the central part of the head wearing mold graphic display device in the condition that drawing 3 contained the nose pad member, Drawing of longitudinal section showing the central part of the head wearing mold graphic display device in the condition that drawing 4 made the nose pad member project, Drawing of longitudinal section of the central part of the head wearing mold graphic display device in which the configuration whose drawing 5 fixes a graphic display system to back covering is shown, the perspective view in which drawing 6 shows the physical relationship of the lobe of a nose pad member and the bridge of glasses, and drawing 7 are (A) book operation gestalt and the side elevation showing the nose pad member of \*\* conventionally [ (B) ], respectively.

[0012] The body 2 of equipment which comes to cover the graphic display system built in by frame-front-cover 3a and back covering 3b as this head wearing mold graphic display device 1 is shown in drawing 1 and drawing 2, The joint members 4L and 4R each fixed to right and left of this body 2 of equipment, The head support frames 5L and 5R supported pivotably so that it might become these joint members 4L and 4R foldable, The inner phone attaching parts 6L and 6R prepared in the edge of these head support frames 5L and 5R, respectively, The inner phones 7L and 7R which may be each contained by these inner phone attaching parts 6L and 6R if needed, The inner phone cables 8L and 8R which each transmit a sound signal to these inner phones 7L and 7R, On the above-mentioned head support frames 5L and 5R in order to hold these inner phone cables 8L and 8R by the temporal-region side so that neither the above-mentioned inner phones 7L and 7R nor the inner phone cables 8L and 8R may hang down before them Each \*\*\*\*\* cable attaching part 10, It extends possible [ telescopic motion ] from the above-mentioned body 2 of equipment, and it has the nose pad member 11 which supports this body 2 of equipment with the above-mentioned head support frames 5L and 5R in contact with an observer's bridge, and is constituted.

[0013] Moreover, the above-mentioned graphic display system is constituted including the graphic display member slack liquid crystal display component (LCD) for discovering the image corresponding to the supplied video signal, and the optical element slack prism for turning and leading the flux of light with the image discovered by this LCD to an observer's eyeball.

[0014] Next, the configuration of the part which attaches the above-mentioned nose pad member 11 in the body 2 of equipment is explained with reference to drawing 3 and drawing 4.

[0015] The support shaft 14 with which two or more crevice 14a by which the above-mentioned nose pad member 11 was arranged along with the longitudinal direction is formed in the inferior-surface-of-tongue side, It has the pad section 12 which was attached in extension one end of this support shaft 14 and which contacts an observer's bridge with elasticity, without sliding, and is constituted. To the upper limit side of this pad section 12 The lobe 13 which comes to project only a predetermined dimension is ahead formed rather than the field in contact with an observer's nose. A predetermined dimension is a dimension which projects by the degree which is extent which can contact from the bottom the bridge of

the glasses which the observer has hung, and the concrete example of use is explained here with reference to drawing 6 etc. later.

[0016] On the other hand, the hole 18 for insertion is drilled in the location which becomes the bottom of the center section of covering 3b after the above of the body 2 of equipment, or \*\*

[0017] And as the housing member 15 for supporting the above-mentioned nose pad member 11 with the above-mentioned support shaft 14 is arranged by this body 2 of equipment, sliding hole 15a in which the above-mentioned support shaft 14 is inserted is prepared in the interior of this housing member 15 and it is open for free passage with the above-mentioned hole 18 for insertion, it is attached in the body 2 of equipment concerned at the include angle which serves as a proper declivity toward back.

[0018] The elastic member 16 which becomes by flat spring is being fixed to the inferior-surface-of-tongue side of the above-mentioned housing member 15 on the screw 17, and stop heights 16a prepared in the tip side of this elastic member 16 engages with crevice 14a of a projection and the above-mentioned support shaft 14 in the above-mentioned sliding hole 15a through opening 15b drilled in the inferior surface of tongue of this housing member 15.

[0019] Thereby, the above-mentioned nose pad member 11 is expanded and contracted free, generating a proper feeling of a click to the body 2 of equipment.

[0020] Moreover, the concave structured division 21 is formed in back covering 3b of the above-mentioned body 2 of equipment near the top of the above-mentioned hole 18 for insertion, and even if there are few above-mentioned lobes 13, a point side enters, and when the above-mentioned nose pad member 11 becomes the location most contained in the body 2 of equipment, it is contained as shown in drawing 3. Thereby, at the time of receipt, as the above-mentioned nose pad member 11 does not project from the external surface of the body 2 of equipment if possible, storability is raised.

[0021] Before the above-mentioned concave structured division 21 serves as the opposite side of nothing and this opening in more detail in the abbreviation rectangular parallelepiped configuration where a rear-face side serves as opening, the bond part slack boss 22 protrudes on the near field towards the front.

[0022] As shown to this boss 22 at drawing 5, tapped hole 22a is drilled and the above-mentioned graphic display system is fixed to this tapped hole 22a through a screw 23.

[0023] Namely, while the circuit board 25 in which the circuit board 26 in which the back light etc. is prepared, a LCD drive circuit, etc. are established is attached To the optical-system attachment component 24 which is a structural member to which the prism which contains LCD, various kinds of filters, a mask member, etc. in the interior, is made to carry out multiple-times reflection of the image of LCD illuminated with the above-mentioned back light further, and is led to an observer's eyeball is being fixed heights 24a for immobilization in which U slot 24b was formed protrudes -- having -- \*\*\*\* -- this U slot 24b -- minding -- bis--- the above-mentioned graphic display system is fixed to back covering 3b in one by concluding 23 to the above-mentioned boss's 22 tapped hole 22a.

[0024] Furthermore, the above-mentioned optical-system attachment component 24 is positioned by engaging with the pin 27 which protruded from back covering 3b by other end side 24c.

[0025] Thus, by forming the boss 22 who fixes a graphic display system in the concave structured division 21, when concluding a screw 23, the part where a load is added is reinforced.

[0026] Moreover, by screwing a screw 19 by two or more parts, each other is connected and the above-mentioned frame-front-cover 3a and back covering 3b constitute the sheathing object.

[0027] Next, the function of the lobe 13 of the nose pad member 11 which was mentioned

above is explained with reference to drawing 6 and drawing 7 (A).

[0028] This head wearing mold graphic display device 1 is usable also after he an observer not only uses it in the state of the naked eye, but has hung the glasses 31 grade.

[0029] And when the observer who hung glasses 31 is going to remove the head wearing mold graphic display device 1 equipped with the nose pad member 11 which was mentioned above, a lobe 13 contacts the bridge 32 of these glasses 31, and it will be in the condition that this bridge 32 is laid on a lobe 13.

[0030] Then, if the head wearing mold graphic display device 1 is tripped from a head, the above-mentioned lobe 13 slides to the bridge 32 of glasses 31, and it will remain in an observer's head as it is, without tripping glasses 31 together.

[0031] In addition, although the lobe 13 was formed in the pad section 12 in \*\*\*\*, it is also possible to take the gestalt which arranges the above-mentioned support shaft 14 in the location which is not limited to this and is equivalent to this lobe 13. In this case, this support shaft 14 will also have the function of the above-mentioned lobe.

[0032] Since the lobe was prepared in the pad section of a nose pad member, in case it is going to remove the head wearing mold graphic display device used where glasses etc. are hung according to such an operation gestalt, these glasses etc. do not separate together and user-friendliness improves.

[0033] Moreover, since the concave structured division which contains the above-mentioned lobe was prepared in back covering, it can consider as the condition of having drawn the nose pad member in the body of equipment as much as possible, at the time of receipt, and it becomes possible to miniaturize and contain.

[0034] Furthermore, it becomes possible to be able to reinforce the part where a load is added, in case a screw etc. is screwed, to be able to prevent that bending, a twist, etc. by the load occur to back covering etc., and to maintain a high assembly precision by preparing the boss who fixes a graphic display system to the concave structured division.

[0035] In addition, as for this invention, it is needless to say for various deformation and application to be possible within limits which are not limited to the operation gestalt mentioned above and do not deviate from the main point of invention.

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## DESCRIPTION OF DRAWINGS

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### [Brief Description of the Drawings]

[Drawing 1] The side elevation showing the head wearing mold graphic display device in the condition that an observer's head was equipped, in 1 operation gestalt of this invention.

[Drawing 2] The top view showing the head wearing mold graphic display device in the condition that an observer's head was equipped, in the above-mentioned operation gestalt.

[Drawing 3] Drawing of longitudinal section showing the central part of the head wearing mold graphic display device in the condition of having contained the nose pad member, in the above-mentioned operation gestalt.

[Drawing 4] Drawing of longitudinal section showing the central part of the head wearing mold graphic display device in the condition of having made the nose pad member projecting, in the above-mentioned operation gestalt.

[Drawing 5] Drawing of longitudinal section of the central part of the head wearing mold graphic display device in which the configuration which fixes a graphic display system to back covering is shown in the above-mentioned operation gestalt.

[Drawing 6] The perspective view showing the physical relationship of the lobe of a nose pad member, and the bridge of glasses in the above-mentioned operation gestalt.

[Drawing 7] (A) The above-mentioned operation gestalt, the side elevation showing the nose

pad member of \*\* conventionally [ (B) ], respectively.

[Description of Notations]

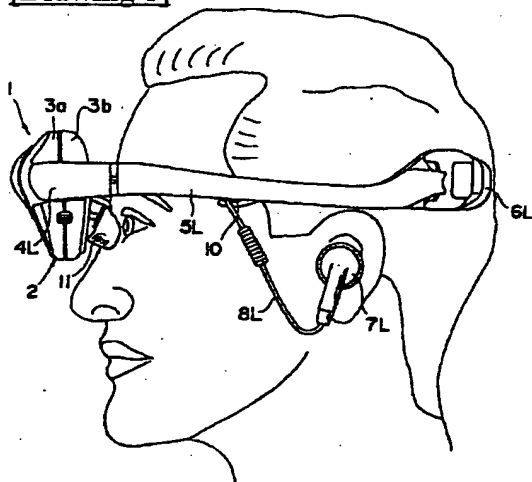
- 1 -- Head wearing mold graphic display device
- 2 -- Body of equipment
- 3a -- Frame front cover (sheathing object)
- 3b -- Back covering (sheathing object)
- 11 -- Nose pad member
- 12 -- Pad section
- 13 -- Lobe
- 14 -- Support shaft
- 21 -- Concave structured division
- 22 -- Boss (bond part)

---

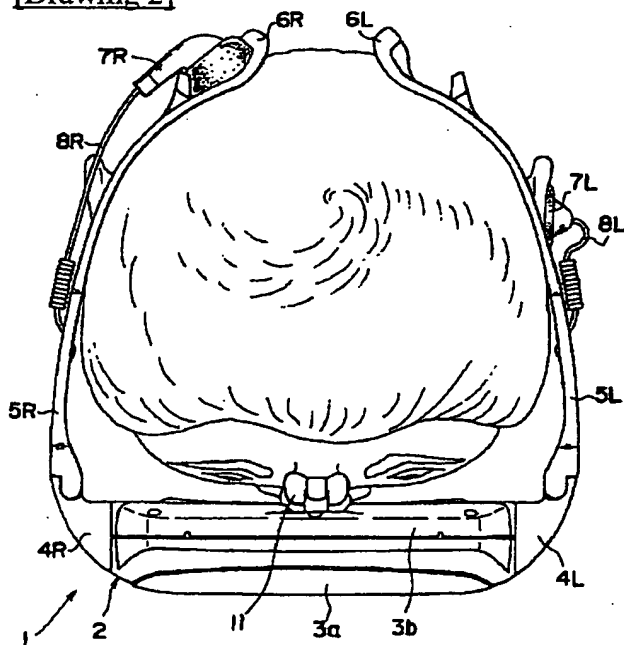
DRAWINGS

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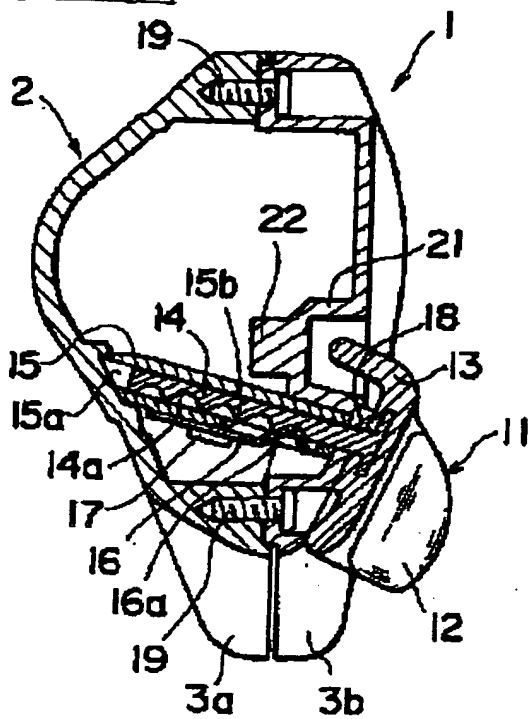
[Drawing 1]



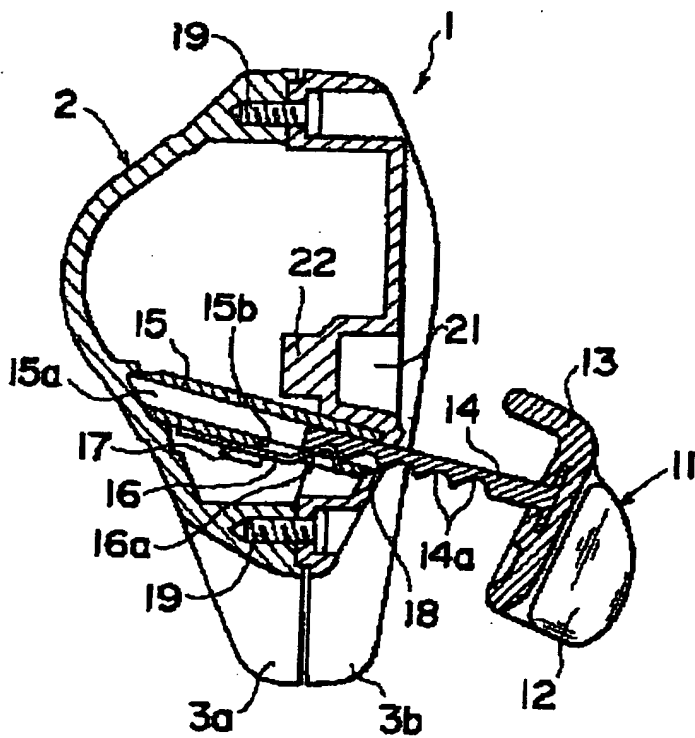
[Drawing 2]



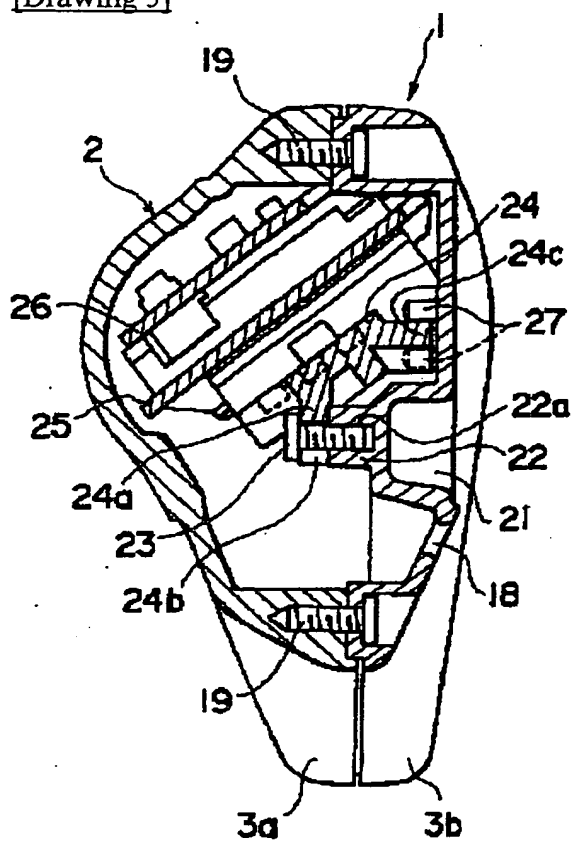
[Drawing 3]



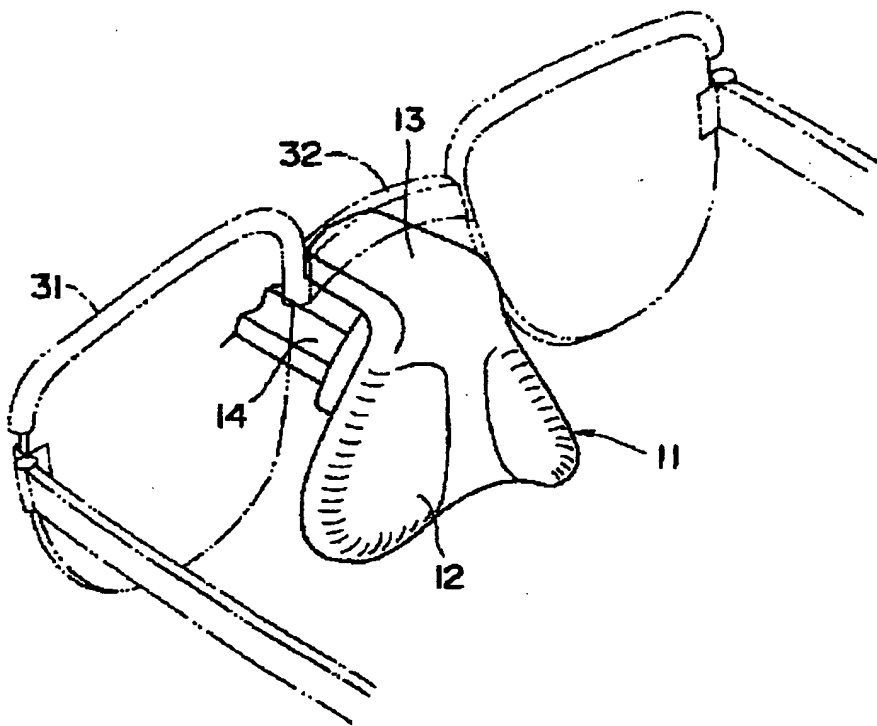
[Drawing 4]



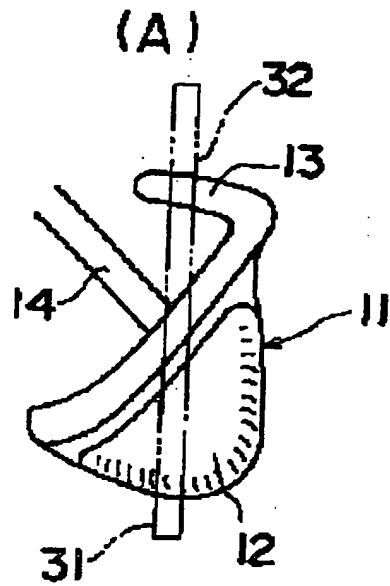
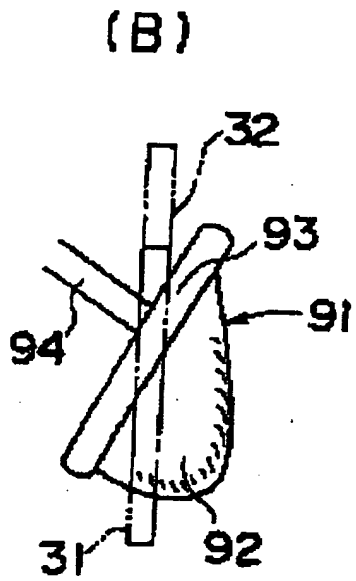
[Drawing 5]



[Drawing 6]



Drawing 7



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